

Rabbit anti-Human OPN-a/b Polyclonal Antibody | anti-OPN-a/b antibody

OPN-a/b, NT (SPP1, BNSP, OPN, Osteopontin, Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1, Urinary stone protein, Uropontin) (MaxLight 490)

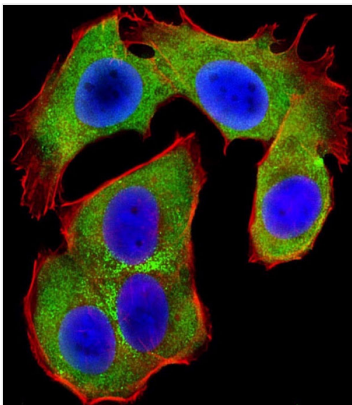
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA26861	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

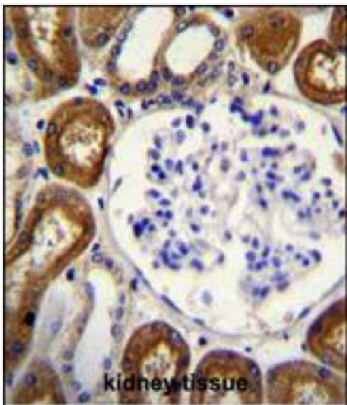
OPN-a/b; Polyclonal Antibody; NT (SPP1; BNSP; OPN; Osteopontin; Bone sialoprotein 1; Nephropontin; Secreted phosphoprotein 1; Urinary stone protein; Uropontin) (MaxLight 490); SPP1; Uropontin; anti-OPN-a/b antibody

PRODUCT SPECIFICATIONS

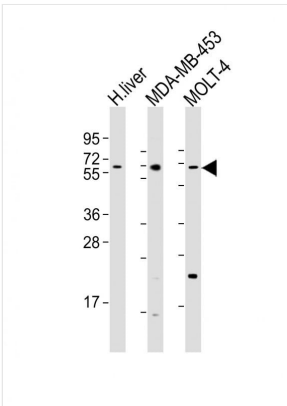
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Recognizes human OPN-a/b.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Applicable Applications for anti-OPN-a/b antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FLISA
Application Notes	Applications are based on unconjugated antibody.
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 14-40 in the N-terminal region of human OPN-a/b, UniProt Accession #P10451.
Conjugate	MaxLight490
Note	Preservative Free
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.



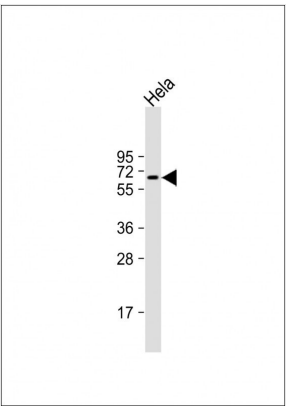
IF (Immunofluorescence)
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF-7 (human breast cancer cell line) cells labeling Pdx1 with at 1:25 dilution, followed by DyLight 488-conjugated IgG goat anti-rabbit secondary antibody at 1:200 dilution (green). Immunofluorescence image showing cytoplasm staining on MCF-7 cell line. Cytoplasmic actin is detected with DyLight 554 Phalloidin (PD18466410) at 1:100 dilution (red). The nuclear counter stain is DAPI (blue).



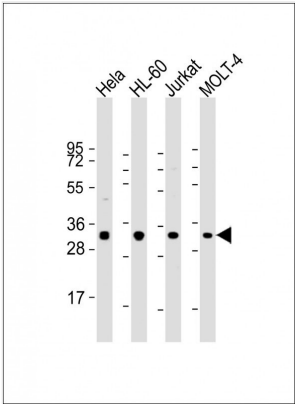
IHC (Immunohistochemistry)
Immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue using followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of for immunohistochemistry.



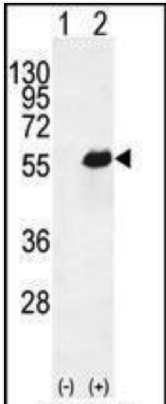
Application Data
All lanes: at 1:1000 dilution Lane 1: human liver lysates Lane 2: MDA-MB-453 whole cell lysates Lane 3: MOLT-4 whole cell lysates Lysates/proteins at 20ug/lane. Secondary IgG, (H+L) goat anti-rabbit, Peroxidase conjugated at 1:10000 dilution. Predicted band size : 35kD Blocking/Dilution buffer: 5% NFDM/TBST.



Application Data
039288 at 1:2000 dilution + HeLa whole cell lysate Lysates/proteins at 20ug/lane. Secondary IgG, (H+L) goat anti-rabbit Peroxidase conjugated at 1:10000 dilution. Predicted band size: 35kD Blocking/Dilution buffer: 5% NFDM/TBST.



Application Data
All lanes: at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: MOLT-4 whole cell lysate Lysates/proteins at 20ug/lane. Secondary IgG (H+L) goat anti-rabbit, Peroxidase conjugated at 1:10000 dilution. Predicted band size: 35kD Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)
Western Blot analysis of OPN-a/b (arrow

ADDITIONAL INFORMATION

Related Product Information for anti-OPN-a/b antibody	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity (By similarity).
Product Categories/Family for anti-OPN-a/b antibody	Antibodies ; Osteopontin
References	1. Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). 2. Weber, G.F., et al. Br. J. Cancer 103(6):861-869(2010). 3. Chen, R.X., et al. J. Gastroenterol. Hepatol. 25(8):1435-1442(2010). 4. Jugessur, A., et al. PLoS ONE 5(7), E11493 (2010). 5. Johnatty, S.E., et al. PLoS Genet. 6(7), E1001016 (2010).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759166
NCBI GeneID	6696
NCBI Accession #	NP_000573.1 ; NP_001035147.1
NCBI GenBank Nucleotide #	NM_000582.2
UniProt Accession #	P10451 ; Q15681 ; Q15682 ; Q15683 ; Q4W597 ; Q567T5 ; Q8NBK2 ; Q96IZ1 ; B2RDA1
Molecular Weight	35,423 Da
NCBI Official Full Name	osteopontin isoform OPN-b
NCBI Official Synonym Full Names	secreted phosphoprotein 1
NCBI Official Symbol	SPP1
NCBI Official Synonym Symbols	OPN; BNSP; BSPI; ETA-1
NCBI Protein Information	osteopontin; uropontin; nephropontin; SPP1/CALPHA1 fusion; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I,
UniProt Protein Name	Osteopontin
UniProt Gene Name	SPP1
UniProt Synonym Gene Names	BNSP; OPN; SPP-1
UniProt Entry Name	OSTP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/opn-a-b-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/26861>